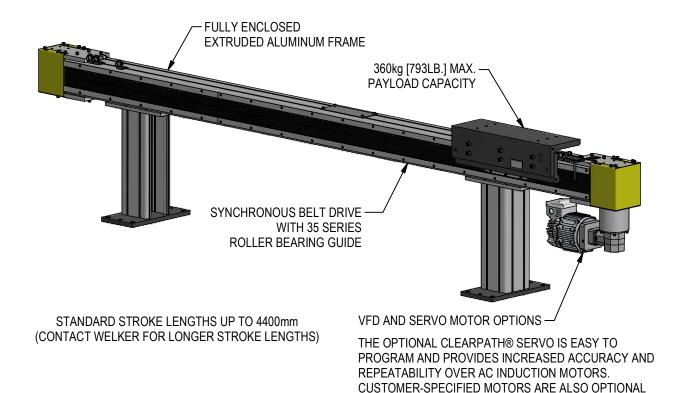


BES LINEAR SLIDE

THE WELKER BES SLIDE OFFERS A COST AND SPACE SAVING ALTERNATIVE TO CONVEYORS AND SCREW DRIVEN SLIDES. THIS NEW SLIDE UTILIZES A RELIABLE SYNCHRONOUS BELT DRIVE WITH HIGH CAPACITY LINEAR BEARINGS, OFFERING FASTER SPEEDS AND LOWER MAINTENANCE REQUIREMENTS THAN A SCREW DRIVEN UNIT.



APPLICATIONS:

NESTED PART PRESENTATION

DUNNAGE BIN/CART PRESENTATION

END EFFECTOR STORAGE/RETRIEVAL

WELD OR CLINCHING GUNS

OVERHEAD SHUTTLE WITH DB4 LIFTER

TIP DRESSER SHUTTLE

REPLACE ACCUMULATING OR INDEX CONVEYOR AT MUCH LOWER COST

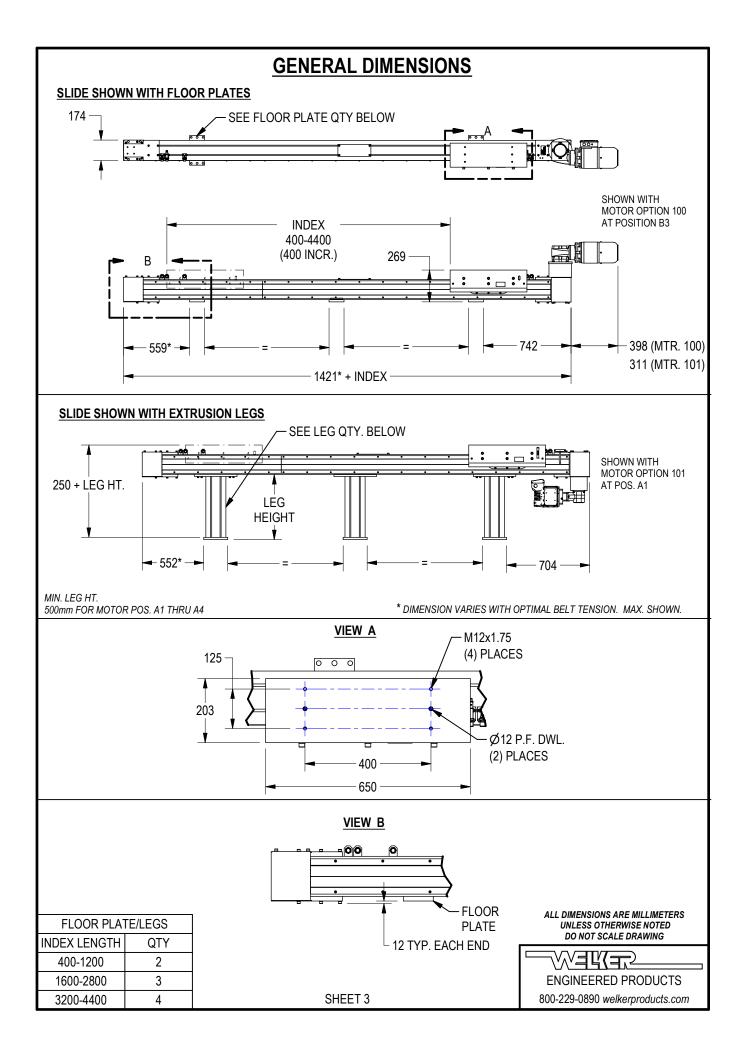
RELEASED 8/24/2023

ORDERING INFORMATION BES Α В 0 1 Index 0400 400mm To 4400mm (in 400mm Increments) Leg Height - See Sheet 3-000 No legs (Std Floor Plates) 350 350mm to 900mm Leg Style - See Sheet 4-Aluminum Ext (Std) or No Leg Weldment Brown 2.5Y 5/2 Weldment Cream RAL-9001 Weldment Light Grey RAL-7035 Weldment Signal White RAL-9003 S Weldment Safety Blue RAL-5017 Weldment (Customer to Specify on Purchase Order) Motor - See Sheet 5-100 VFD - Nord 460 VAC, 2 hp brakemotor 101 ClearPath® Integrated Servo, 230-3ph VAC XXX Customer Specified (Contact Welker) Motor Orientation - See Sheet 5-A1 Motor down @ P1 (motor option 101 only) Motor down @ P2 A3 Motor down @ P3 **A4** Motor down @ P4 **B2** Motor up @ P2 **B**3 Motor up @ P3 Motor up @ P4 Switches - see sheet 6 None (3) Switches at each end (VFD) W (1) Switch at each end (servo)

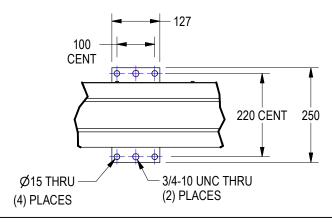
GENERAL SPECIFICATIONS

DRIVE TYPE	HIGH PERFORMANCE, STEEL REINFORCED POLYURETHANE TIMING BELT
GUIDE TYPE	PROFILED LINEAR GUIDES WITH ROLLER BEARING CARRIAGE
MAX. PAYLOAD, CENTERED (SEE	360kg
SHEET 7 FOR OFFSET LOADING)	Journ
MAX. RECOMMENDED LOAD SIZE	900mm x 1200mm
MAX. INDEX LENGTH	4.4m STANDARD, LONGER INDEX LENGTHS UPON REQUEST
MAY CDEED	0.74m/s [VFD]
MAX. SPEED	1.0 m/s [SERVO]
CTORDING POCITION DEDEATABILITY	±1.0mm [VFD]
STOPPING POSITION REPEATABILITY	±0.1mm [SERVO]



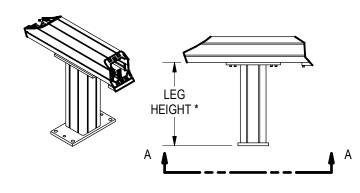


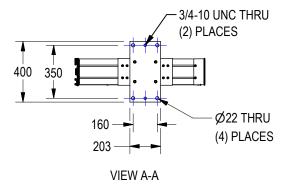
FLOOR PLATE



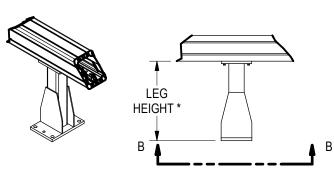
LEG OPTIONS

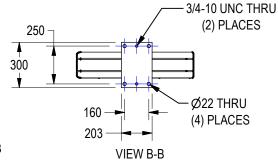
LEG STYLE W - ALUMINUM EXTRUSION (STANDARD)





LEG STYLES A, B, C, D, S, X - WELDMENT, PAINTED





* MINIMUM LEG HEIGHT

MOTOR POSITIONS A1 THRU A4: 500mm MOTOR POSITIONS B2 THRU B4: 350mm

	STYLE	PAINT
	Α	Brown 2.5Y 5/2
	В	Cream RAL-9001
	С	Light Grey RAL-7035
	D	Signal White RAL-9003
	S	Safety Blue RAL-5017
	Х	Customer spec on P.O.

ALL DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE NOTED DO NOT SCALE DRAWING

FLOOR PLATE/LEGS		
INDEX	QTY	
400-1200	2	
1600-2800	3	
3200-4400	4	

NOTE:

ALL LEVELING PADS, ANCHOR ANGLES, AND OTHER MOUNTING HARDWARE IS THE RESPONSIBILITY OF OTHERS.

SHEET 4

ENGINEERED PRODUCTS	
800-229-0890 welkerproducts.com	

MOTOR INFORMATION

MOTOR OPTION 100 - 460VAC GEARMOTOR

TYPE	NORD INDUCTION GEARMOTOR WITH BRAKE, INVERTER DUTY (10:1)
POWER	2hp [1.5kW]
VOLTAGE	230/460 VAC
BRAKE VOLTAGE	460 VAC
FL CURRENT	5.6/2.8 A

MOTOR OPTION 101 - INTEGRATED SERVO MOTOR

TYPE	CLEARPATH® INTEGRATED SERVO WITH BUILT-IN MOTION
	CONTROLLER
PEAK POWER	3.5kW
CONT. POWER	986W
VOLTAGE	240 VAC 3-ph
INPUT LOGIC VOLTAGE	4.0 VDC TO 28 VDC

THE CLEARPATH® INTEGRATED SERVO MOTOR OPTION PROVIDES A SIMPLE, COST-EFFECTIVE WAY TO PRECISELY CONTROL MULTIPLE POSITIONS WITH A WIDE VARIETY OF OPERTING MODES (i.e., ABSOLUTE POSTIONING, SWITCH-TO-SWITCH) WITHOUT THE NEED FOR A SEPARATE MOTION CONTROLLER OR SERVO DRIVE. ALL PROGRAMMING AND CONTROLS ARE THE RESPONSIBILITY OF OTHERS.

CONTACT WELKER FOR ADDITIONAL INFORMATION ON THIS OPTION.

MOTOR OPTION XXX - CUSTOMER SPECIFIED MOTOR

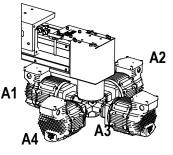
IN ADDITION TO THE MOTOR OPTIONS ABOVE, WELKER CAN SIZE AND INSTALL YOUR CHOICE OF MOTOR (i.e., FANUC, ALLEN-BRADLEY, AND OTHERS).

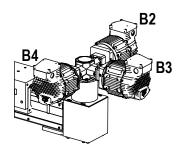
CONTACT WELKER FOR INFORMATION ON THIS OPTION.

MOTOR ORIENTATION

(MOTOR OPTION 101 SHOWN)



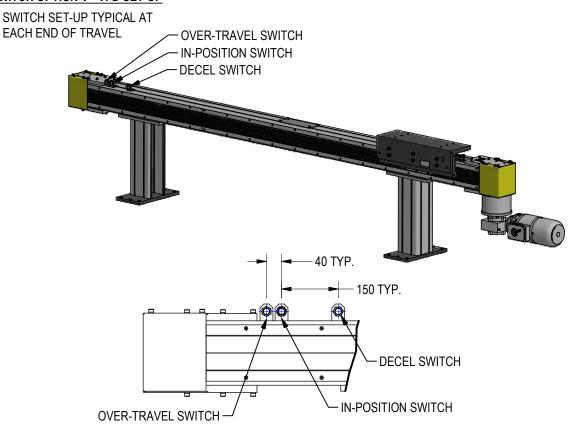




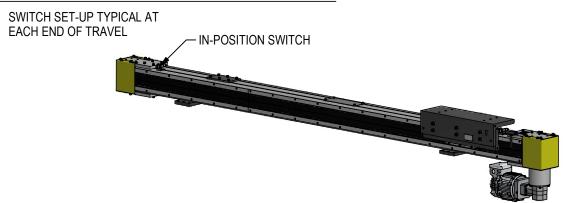


PROX SENSORS (SWITCHES)

SWITCH OPTION V - VFD SET-UP



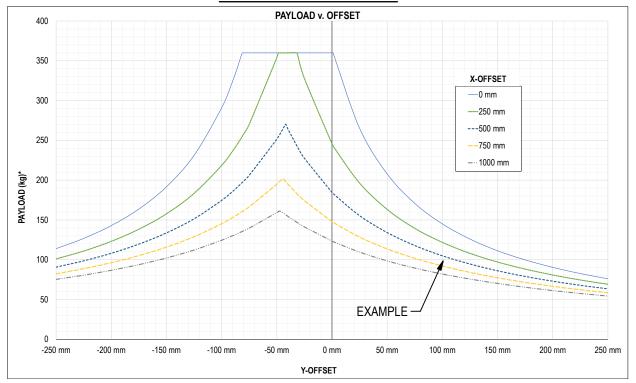
SWITCH OPTION W - SINGLE SWITCH AT EACH END OF TRAVEL



SWI	TCH INFORMATION, OPTIONS V & W
DECEL SWITCH	IFM EFECTOR #IGC207 PNP, NC
IN-POSITION SWITCH	IFM EFECTOR #IG5539 PNP, COMPLEMENTARY, NO/NC
OVER-TRAVEL SWITCH	IFM EFECTOR #IGC207 PNP, NC



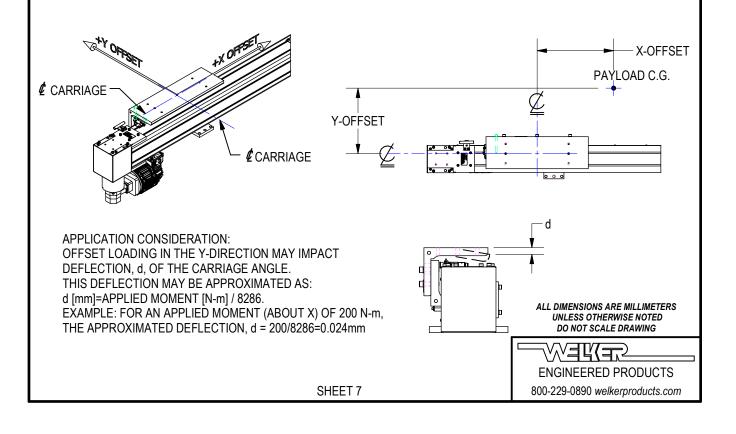
PAYLOAD CAPACITY



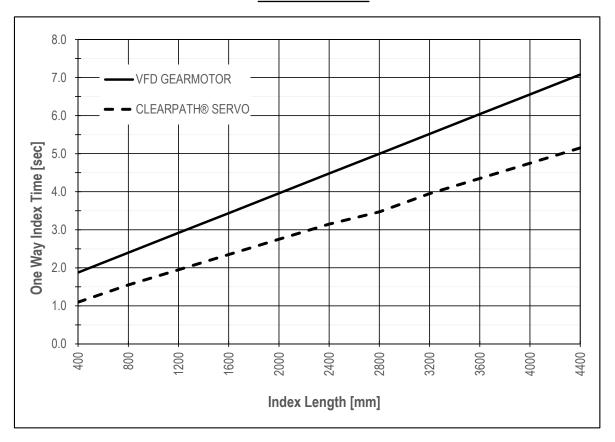
* VALUES FOR REFERENCE ONLY AND ARE BASED ON A SERVICE LIFE OF 8,800km.
FOR HORIZONTAL APPLICATIONS ONLY.
REFER TO ONLINE BES EXTRUSION SLIDE CALCULATOR FOR APPLICATION-SPECIFIC VALIDATION.
VISIT www.welkerproducts.com/scs_calculator_ps.php?series=BES

EXAMPLE:

AN APPLICATION WITH A 100kg LOAD HAS THE CENTER OF GRAVITY LOCATED AT X=250mm AND Y=100mm. PLOT A POINT AT +100mm ALONG THE VERTICAL AXIS AND 100kg ALONG THE HORIZONTAL AXIS. THE PLOTTED POINT FALLS BELOW THE X-OFFSET=250mm CURVE, SO THE APPLICATION PASSES.



INDEX TIMES



TIMES SHOWN ARE APPROXIMATE AND BASED ON THE FOLLOWING PARAMETERS: VFD GEARMOTOR: 0.74m/s TRAVEL SPEED, 0.18m/s LOW SPEED DECEL (MOTOR: 100%, 25% LOW SPEED DECEL, 0.5s ACCEL/DECEL RAMP)

CLEARPATH® SERVO: 1.0 m/s TRÁVEL SPEED, 1.33 m/s² ACCEL/DECEL (MOTOR: 2625rpm/3500rpm/s)

